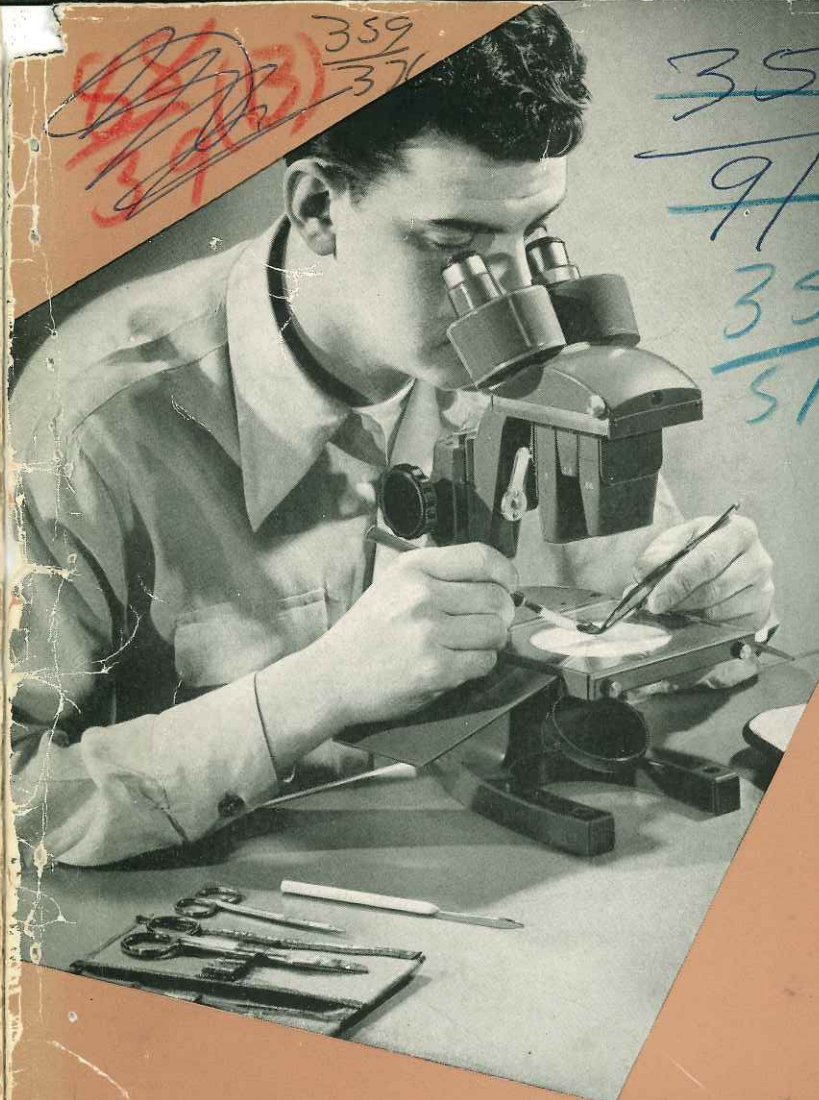




DIVISION 7

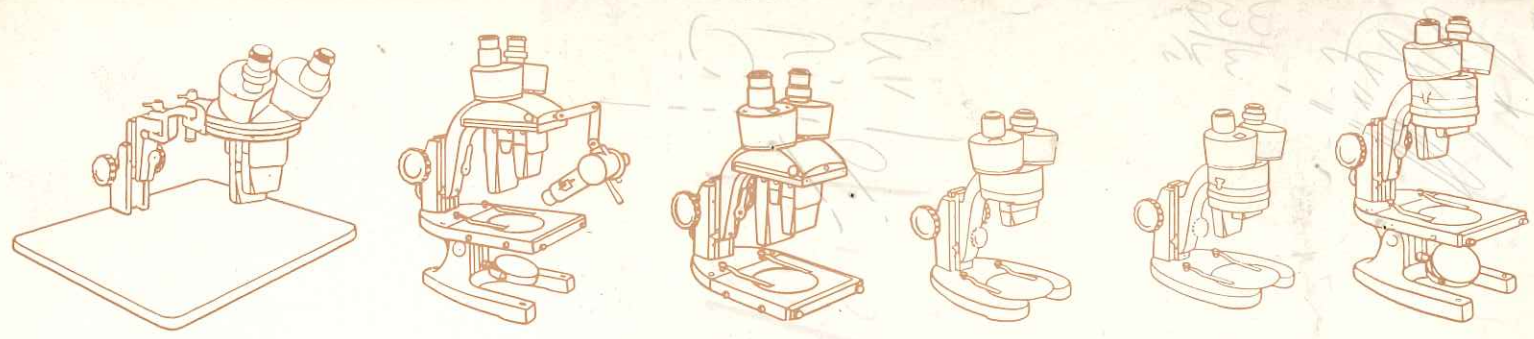
FEB 3 1959

U. S. PATENT OFFICE



Bausch & Lomb Stereomicroscopes





THREE DIMENSIONAL VISION

With the Unaided Eyes

TWO EYES are always better than one. The average person is so used to seeing objects stereoscopically that he seldom gives consideration to the visual image deficiency which would result from a loss of the third dimensional feature. Stereoscopic vision is a "rangefinder" for placing the exact position of objects.

Lay a pencil on your desk with the point toward you. Now with one eye closed, attempt to touch the point of the pencil with your index finger. Generally you will not be on the target. The mechanics of stereoscopic vision are simple. Each eye sees a slightly different image. These are interpreted by the brain as one, with the additional all-important feature of depth.

This perception of depth decreases as the distance from the eye to the object is increased. On an average, stereoscopic vision is lost 1200 to 1600 yards from the unaided eyes.

With Stereomicroscopes

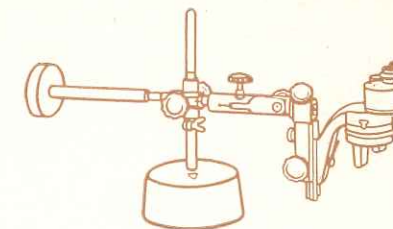
THREE DIMENSIONAL vision is extremely valuable, also, in interpreting magnified images of objects. Many things may be satisfactorily seen only when magnified—leading to the necessity of combining magnification and stereopsis.

The stereoscopic or Greenough type microscope provides a magnified image which is both stereoscopic and unreversed. While its magnification range is more limited than that of the monobjective type, its fields are larger, and its unreversed images are more easily interpreted by the average user.

The uses of stereomicroscopes are almost boundless. These instruments are best known perhaps for use in biological work and for dissecting. Industry however, is rapidly finding more and more applications for these optical aids. Today, many small part assembly operations, such as bearings, watches, etc., are handled more quickly and efficiently with three dimensional magnification.

These flexible instruments are used for the examination of many types of specimens—often being placed either on or over the object.

BAUSCH & LOMB STEREOMICROSCOPES



15 POINTS OF SUPERIORITY

- DUST-PROOF SEAL IN PRISM HOUSINGS
- DUST-PROOF NOSEPIECES
- EXTRA WIDE FOCUSING RACK FOR LONG LIFE
- AMAZINGLY TRUE STEREOSCOPIC IMAGES
- FLATTER FIELDS TO THE EDGES
- LONGER EFFECTIVE EYE-RELIEF
- OBJECTIVES INTERCHANGEABLE BETWEEN STANDS
- METAL RIM PROTECTING FRONT EDGE OF GLASS STAGE
- SMOOTH GRAY ENAMELED SURFACES
- DOUBLE EXTENSION DOVE-TAIL SLIDE
- MOST COMFORTABLE INCLINATION ANGLE OF EYEPIECES
- PRECISION GEARING FOR STABLE INTERPUPILLARY DISTANCE
- ROTATABLE MODELS SWINGING ABOUT CENTER OF FIELD OF VIEW
- SLIDING NOSEPIECE—FAST AND EFFICIENT
- PRISM ASSEMBLY SECURELY ANCHORED BY CLAMP AND GIBS

**PLUS BAUSCH & LOMB OPTICAL
ENGINEERING . . . UNSURPASSED**

A HIGH-SPOT SUMMARY OF SOME OF THE USES FOR STEREOMICROSCOPES

EDUCATIONAL

Biology
Botany
Anatomy
Embryology
Zoology
Agronomy
Paleontology

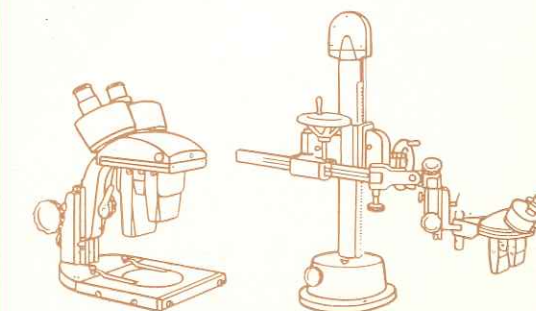
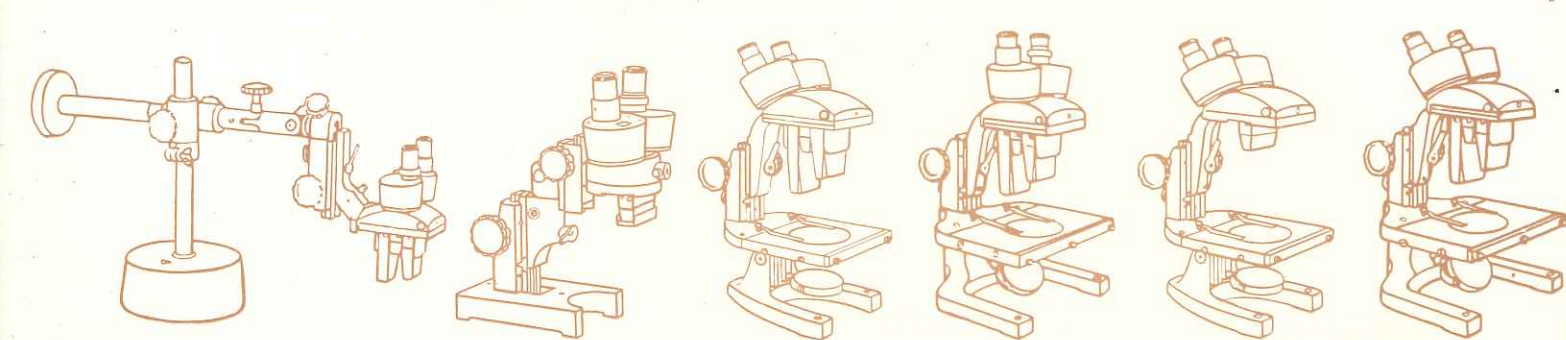
INDUSTRIAL

Quality Control
Canned Foods
Watchmaking
Gemology
Grinding Agent
Determination
Textiles
Tool Making
Metal Working

MEDICAL

Entomology
Parasitology
Pathology
Dermatology
Diagnosis

To these general classifications can well be added hundreds of specific applications where stereomicroscopes will permit better, quicker examinations and, consequently, a greatly increased volume of work.



BAUSCH & LOMB

STEREOMICROSCOPES . . .

• These Stereomicroscopes were designed in a wide variety of models to incorporate those features which have been demanded by users in the medical, educational, and industrial fields. Mechanically, these sturdy instruments are watch-like in their precision. Optically, their performance is of the superior quality which only Bausch & Lomb "know-how" can guarantee.

Dustproof Design

Dust and other foreign material cannot sift down through the eyepieces onto the prisms and into the nosepieces of these instruments.

The prism housings are dust-tight and incorporate a patented seal which permanently protects the prism assemblies. A Neoprene ring is fixed in a slot at the lower end of each eyepiece tube and effectually closes what has heretofore been a dust catcher. This feature in no way hinders removal of the housings for prism examination. Two easily accessible screws firmly hold the cases in place, as well as permit their quick removal.

Nosepieces, both revolving and sliding, are also entirely protected from dust seepage. While they work with surprising ease, they are so designed and fitted that the optics are kept clean for highest quality performance. Objectives are designed to protect their lens surfaces, the mount being long enough to prevent touching the lenses while in use or when being changed from one nosepiece to another.

Dustproofing, from an economy standpoint, is particularly desirable—the less optical parts are handled, the

less the opportunity of their becoming scratched, chipped, or broken. These Stereomicroscopes are built to give long, useful service from every part.

Highest Quality Optics

Bausch & Lomb wide field eyepieces have been designed to give comfortably long eye relief with flatter fields and absence of bothersome stray side lighting. Mechanical design of these eyepieces permits simple insertion of standard micrometer discs for measuring work.

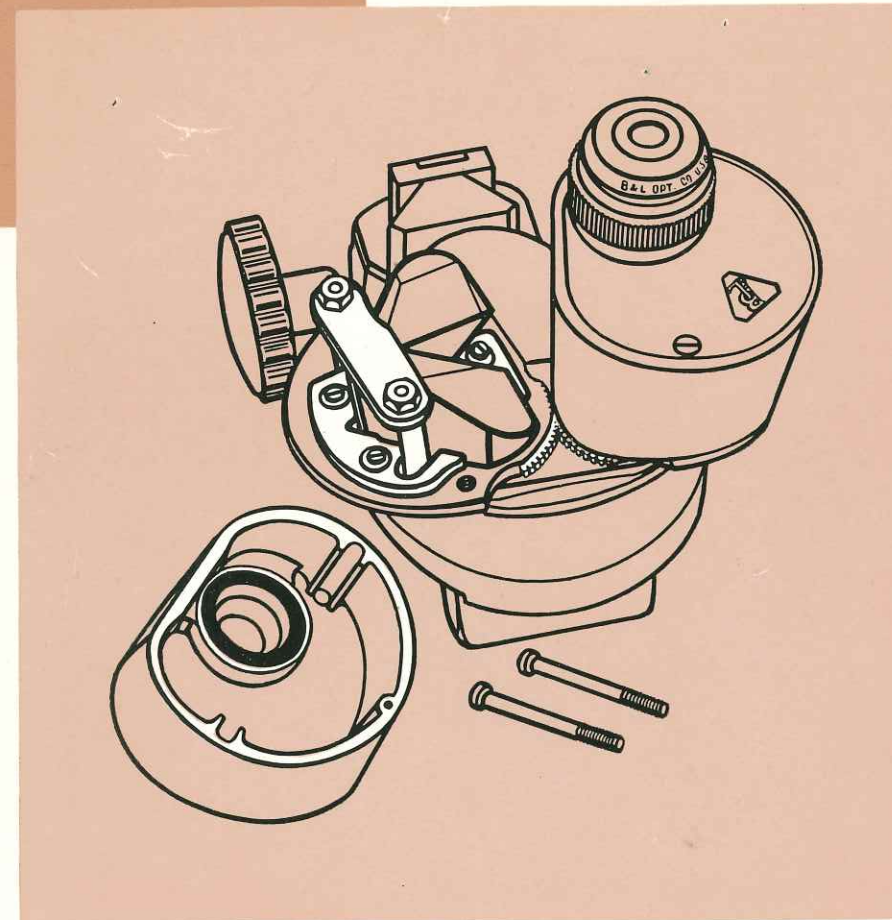
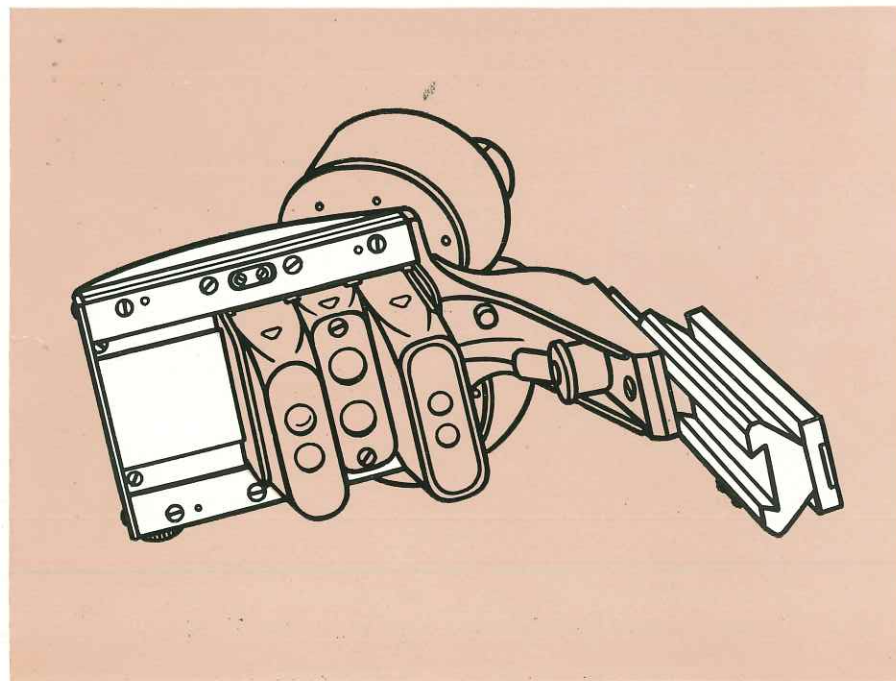
Objectives of these instruments are fully up to Bausch & Lomb highest qual-

ity precision standards. Parfocal and interchangeable from one stand to another, these optics are as fine as can be produced for wide field work. They are marked by less than the usual image deterioration at the edge of the field.

True stereopsis is realized in these advanced design optical systems. The angle between the axes of both eyepieces and objectives is 10° . There is no compromise in stereoscopic quality.

Width of field is, of course, a prime requisite of any Greenough type microscope. In this phase of its design, no other instrument excels these B&L models. Reference to the table on page 21

The sliding nosepiece on the W, T, and R Series is dustproof. Its action is quick and positive, positioning of the desired objective being effected by a click stop. When changing from one objective to another there is no bothersome kaleidoscopic effect. Below is shown the extensible double dovetail slide with extra wide rack.



Dustproof prism housings are featured by a Neoprene ring which makes contact with the top surface of the Porro prism. This patented design prevents dirt from sifting down over the prisms.

In addition to the conventional clamp atop the prisms, gibs at the bottom furnish additional support and effectually maintain optically correct positioning.

Large, well-fitted gears move the prism housings and eyepieces to adjust and positively maintain individual interpupillary distances.

will prove most illuminating, both as to the field areas and magnifications available.

Objective magnifications have been designed so that the four most commonly used, 10 $\times$, 20 $\times$, 30 $\times$, and 60 $\times$, can be obtained with either 10 $\times$ or 15 $\times$ eyepieces.

Stand Design

The Bausch & Lomb Stereomicroscope stands, both conventional and specialized, are packed with features which are found only on these fine instruments. Too, these stands furnish steady support for the optics, they have a pleasing,

functional appearance, and they will be faithful workers in any surroundings.

The prism housings are geared together so that rotation of one turns the other. The stand is always symmetrical regardless of the adjustment necessary for inter-ocular separation—and maintenance of setting is assured.

Within the dustproof prism housings, the erecting prisms are securely held in place by a clamp at the top and gibs at the bottom. Absolute maintenance of proper positioning is assured throughout the life of the instrument.

Inclination angle of the inclined eyepieces is 30° from the vertical—the most comfortable for use on conven-

tional height tables. An inclination joint is provided in the standard V-U base.

The models in the K series have a three position adjustment for the arm, while those in the other series are provided with a sliding extension fitted with a flat, long-lived pressure spring. Unusually long working distance on the two types will be welcomed as appreciably increasing the range of their usefulness.

Arm design is such that there is a wealth of usable space between the center of the stage and the inside of the post. Two stage and base sizes are available in the T series. The standard stage is $5\frac{1}{4}'' \times 8\frac{1}{4}''$ overall, while the larger type is $8\frac{1}{4}'' \times 8\frac{1}{4}''$.

The glass stage plate is protected on all sides by metal, the front strip being quickly removable should it be desirable to take out the glass for cleaning or any other reason. A combination black and white metal contrast plate is held by a spring in its groove on the stage models.

Bases are either the standard V-U type or the extra wide design. In each case the bases are instantly detachable and are fitted with a combination concave mirror and diffusing disc mounted to swivel in a swinging arm.

Positive Focusing

Focusing without drift—always desired in wide field microscopes—is assured on these stereomicroscopes. A patented beryllium-copper spring has a double bearing against the focusing pinion shaft. This metal is known for its resistance to fatigue and, with the easily accessible pressure adjusting screws, will be "on guard" through the long lifetime of the instrument.

Focusing knobs are extra large for positive handling and the extra wide rack on all models gives strength with ease of manipulation. These instruments will always focus as easily and precisely as the day they leave the Bausch & Lomb inspection division.

The finish on each model is gray enamel, easy to keep clean and always in harmony with any environment.



SERIES K

Stereomicroscopes...

• Engineered to assure performance comparable to that of higher priced instruments, these models conform in every way to B&L quality standards.

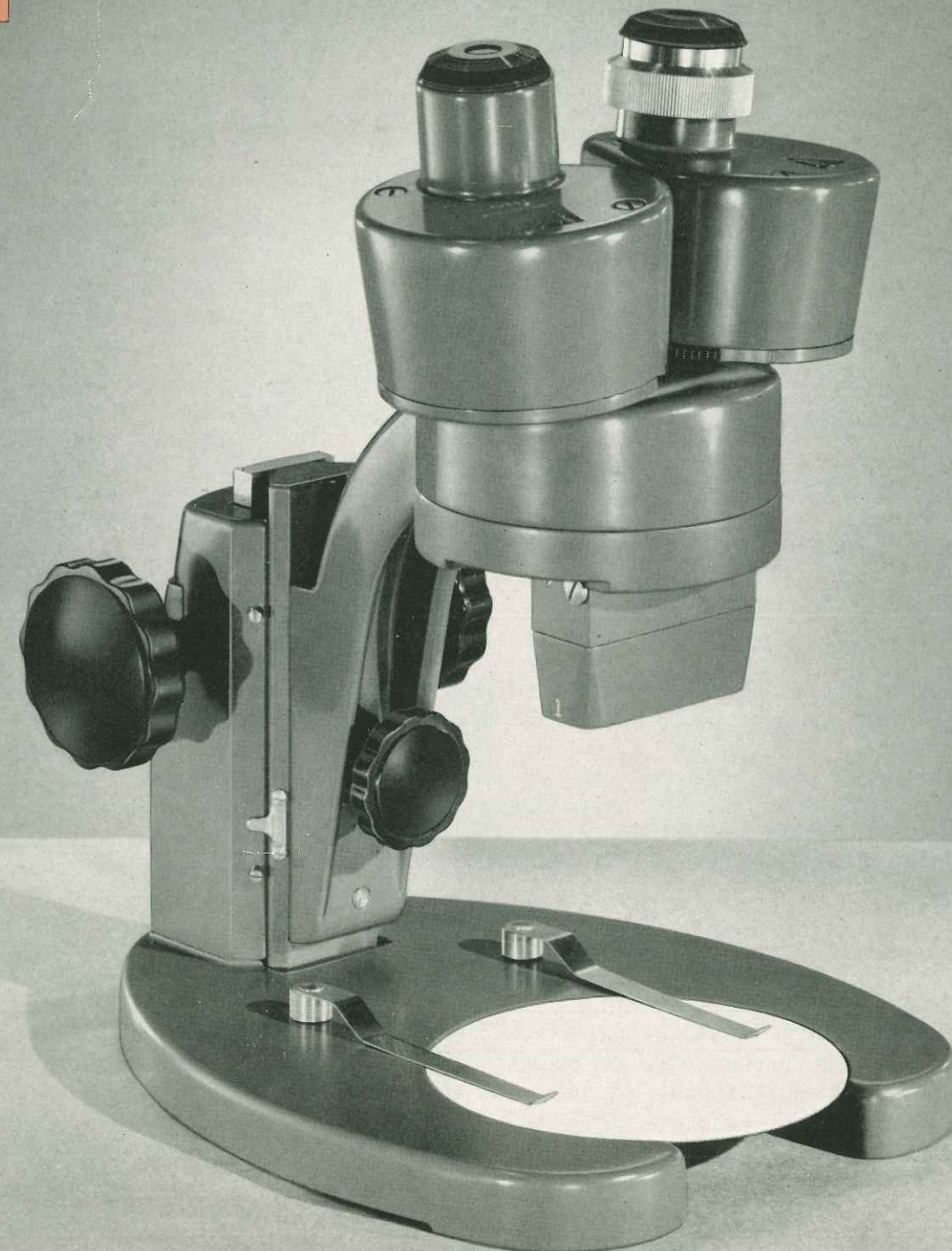
A sturdy stand, extra wide rack, 3-position arm adjustment on slide; dustproof prism housings and nosepiece—every feature necessary to fine performance is included.

The two models are similar save that the JK-1 has one set of paired objectives in a stationary nosepiece, while the JK-2 has two, in a horizontal, rotating nosepiece.

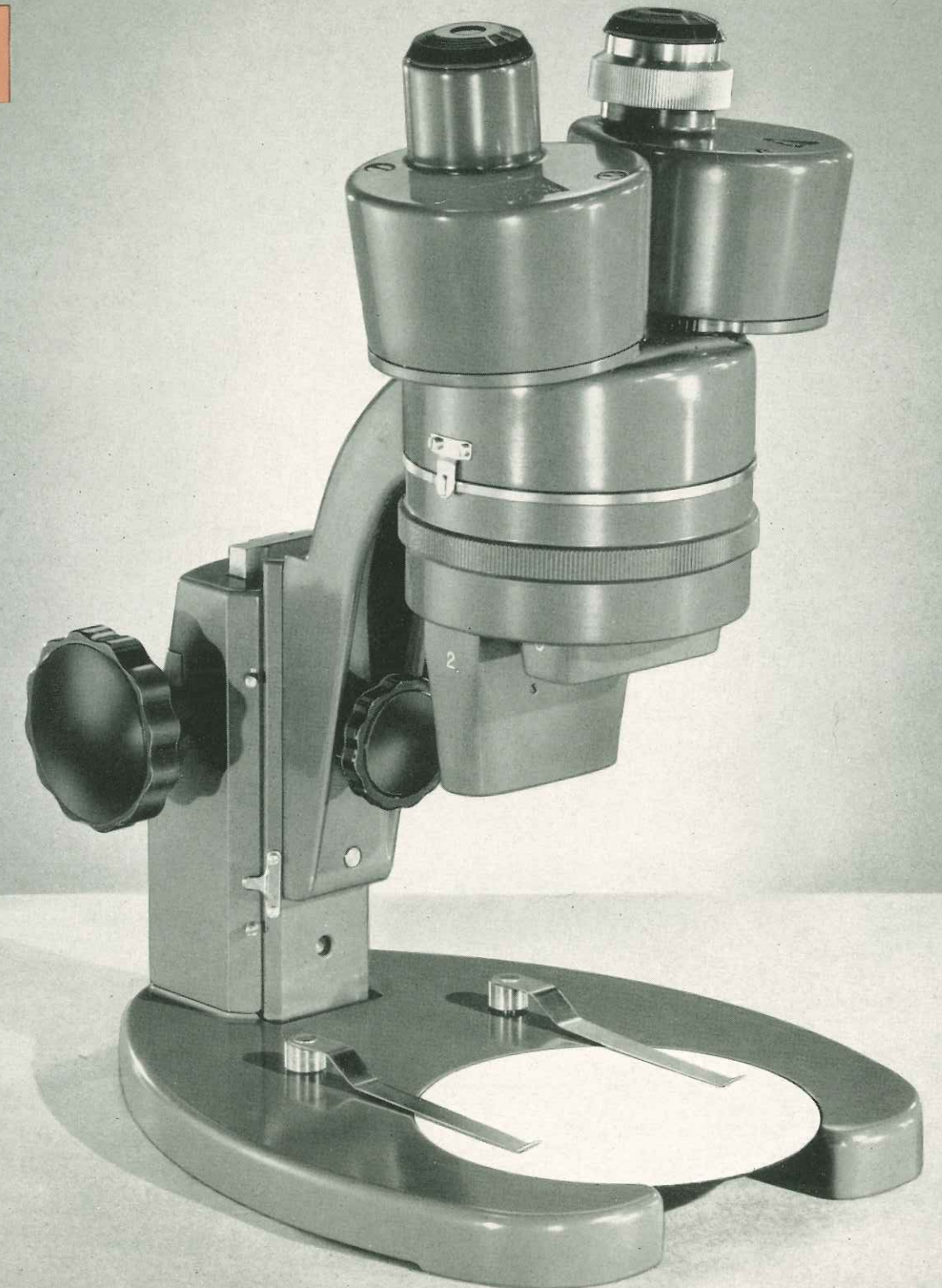
For specifications please turn to page 18.

Catalog D-15, Page 7

JK-1



JK-2





SERIES K Stereomicroscopes...

BK-2



- These two vertical eyepiece models feature dustproof, geared prism housings, and revolving nosepiece with interchangeable objectives. Both have the extra wide rack and double dovetail extensible slide.

Model BK-2 has a glass stage with front metal protection plate. The V-U base is detachable by the turn of a knob. The concave mirror and diffusing disc are adjustable in three planes. Hand rests, regularly supplied, are not shown here, but are illustrated on page 20.

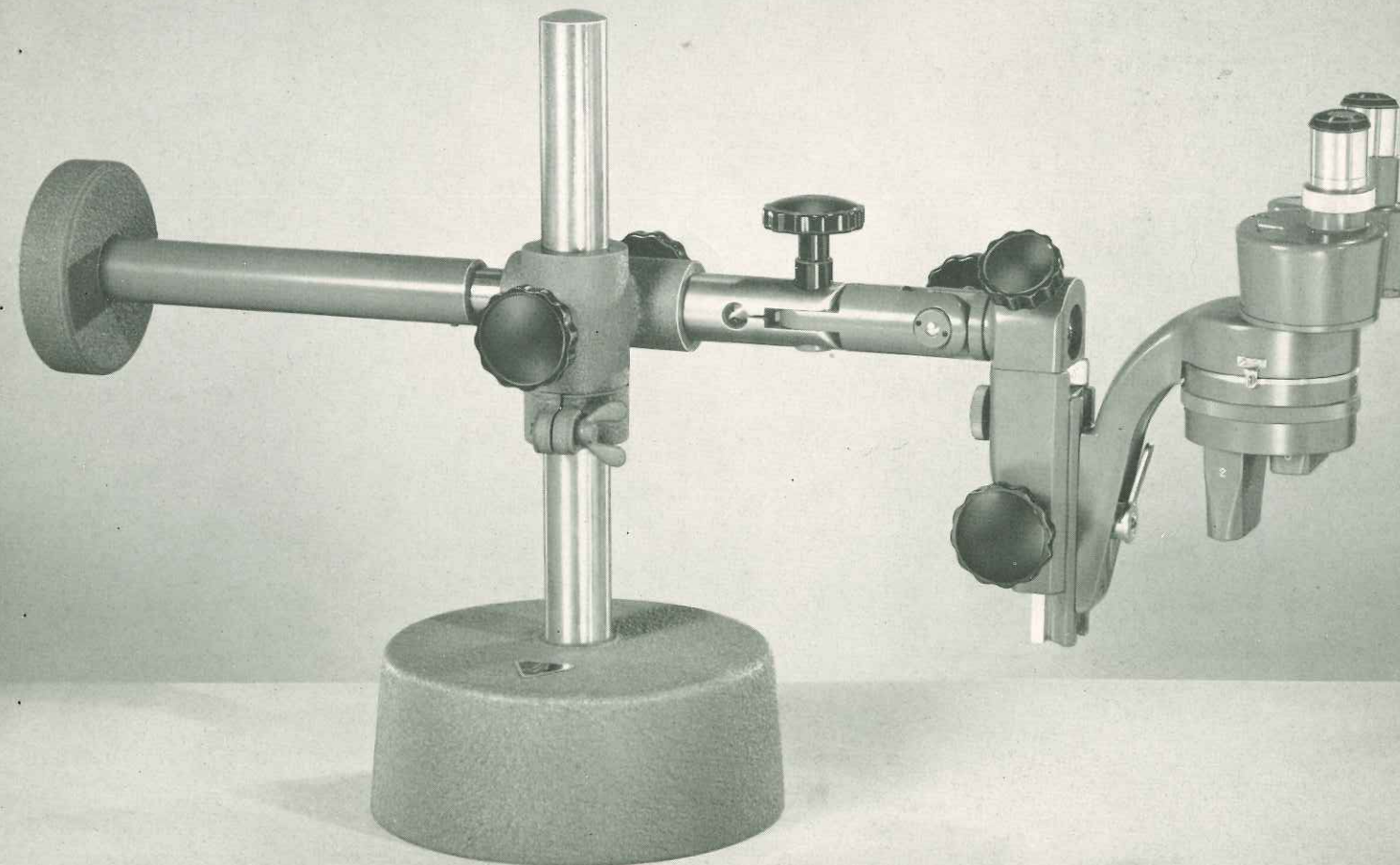
SK-2 is mounted on a heavy cast iron base with vertical post. Universal joints and clamps on the arm permit vertical adjustment and revolution about both vertical and horizontal axes.

The counterbalance is on a sleeve for quick, convenient change of horizontal radius. Knobs are extra large, requiring little effort in effecting adjustments.

For specifications please turn to page 18.

Catalog D-15, Page 9

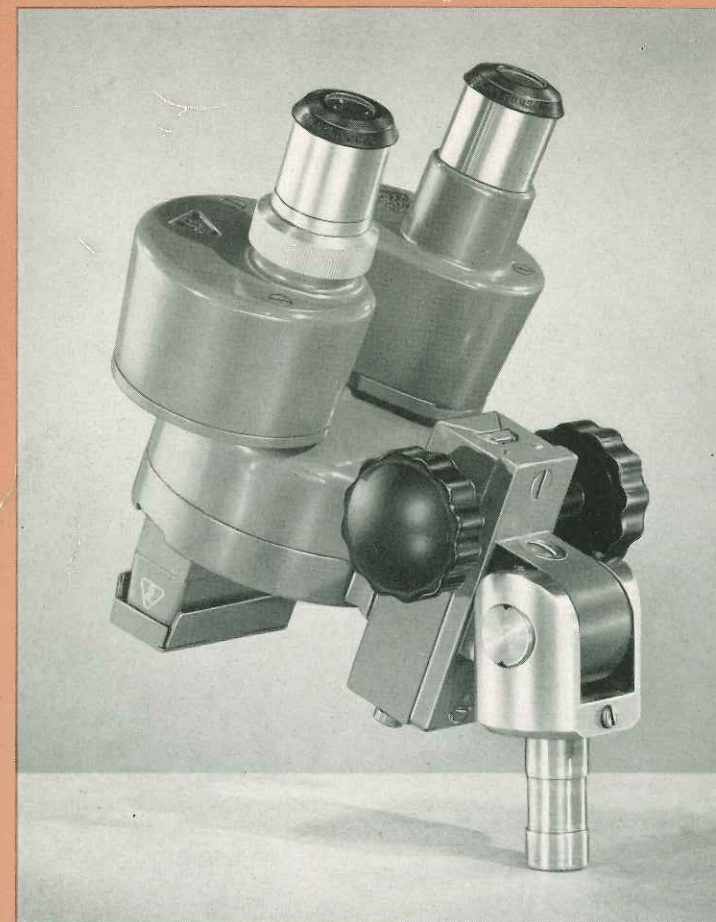
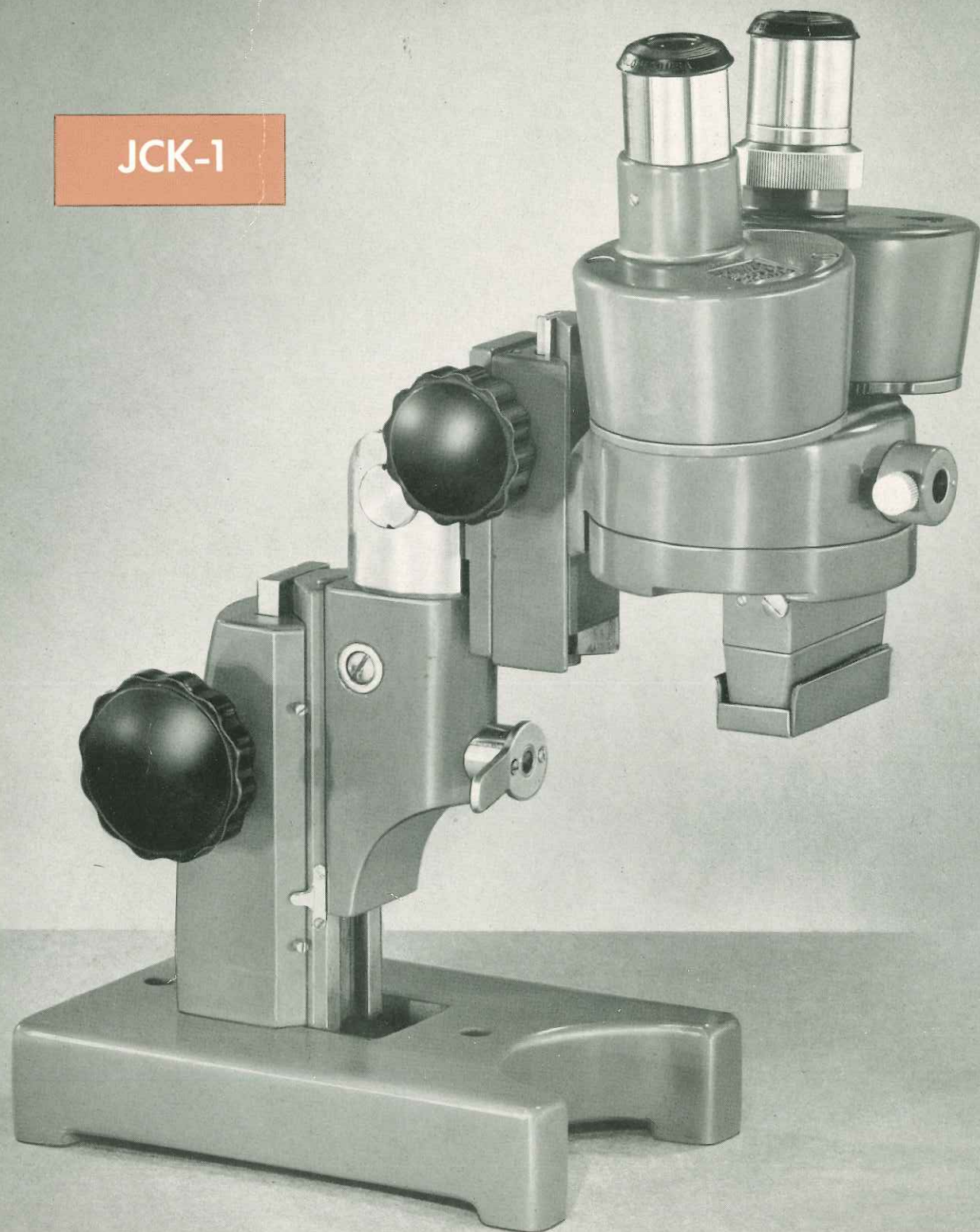
SK-2





SERIES K Stereomicroscopes...

JCK-1

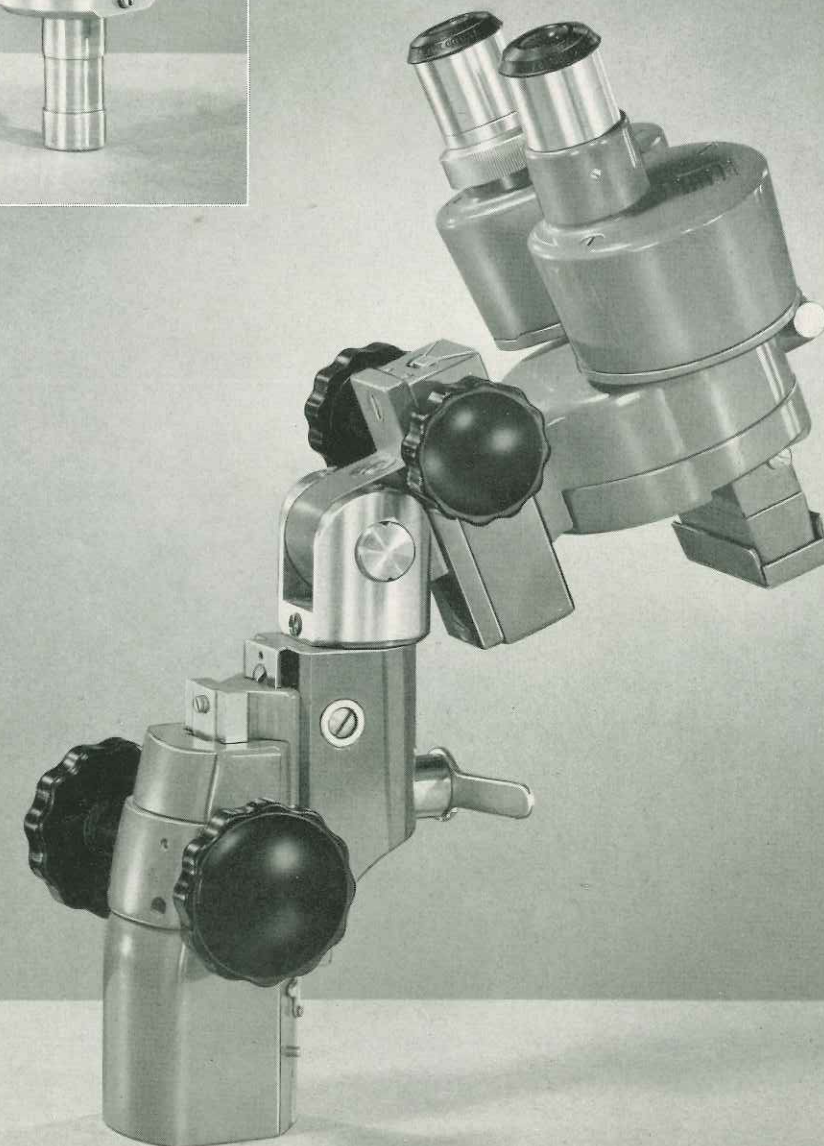


While many other models of the complete line of instruments shown in this catalog are used in industry as well as science the Model JCK-1 and its variations are specifically designed for industrial applications.

The optical elements are mounted on a single, stationary nosepiece, focusable by inclinable rack and pinion on a rotatable pivot. This pivot is inserted in the arm on a double, dovetail, extensible slide. Supporting column has rack and pinion focusing adjustment. Base is cast iron with four point support.

Two variations of the JCK-1 are shown and others are obtainable to fit into specific situations in production and inspection processes. Bausch & Lomb engineers will help you put this instrument on your payroll.

For specifications please turn to page 18.

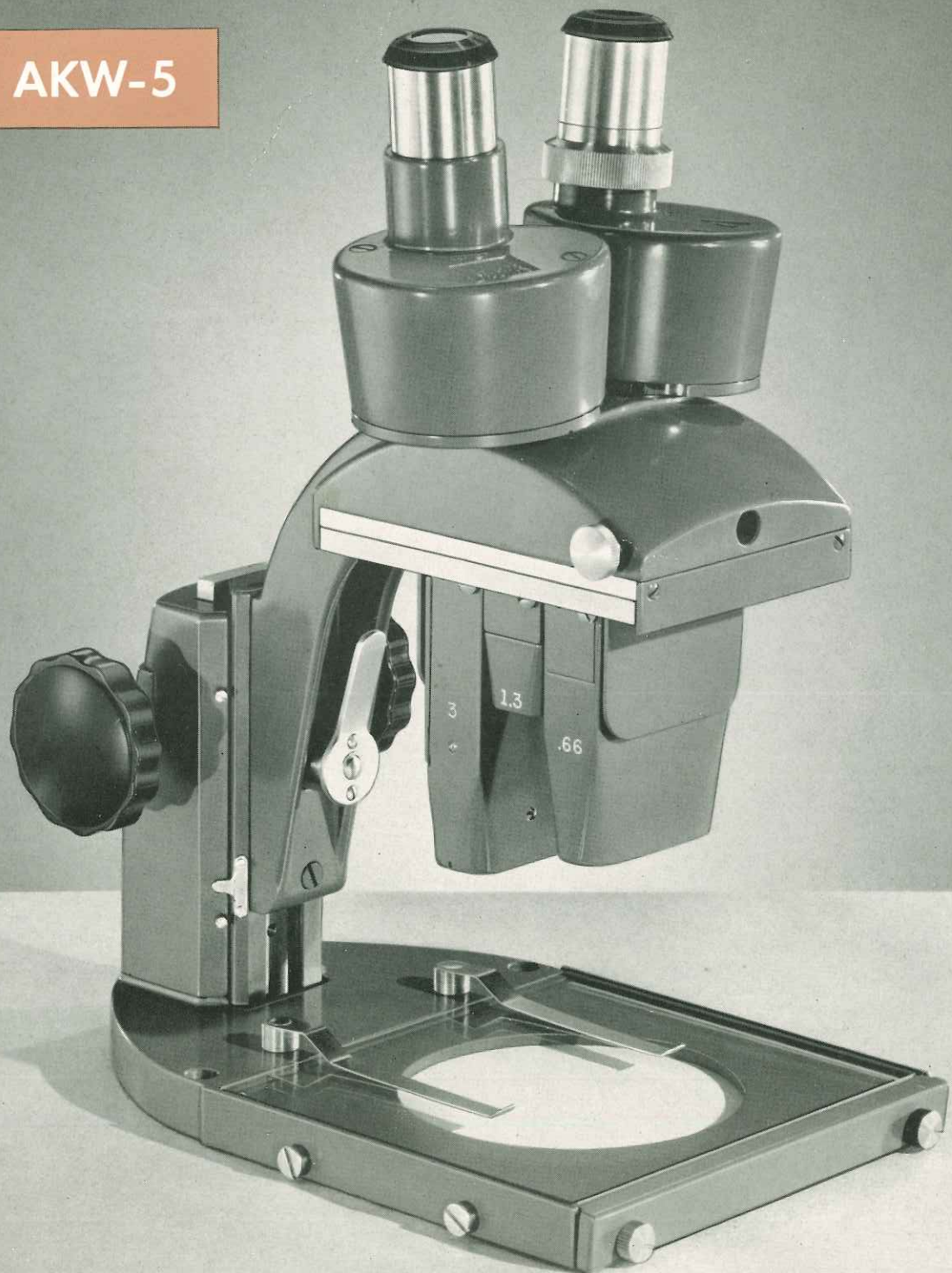




SERIES W

Stereomicroscopes...

AKW-5



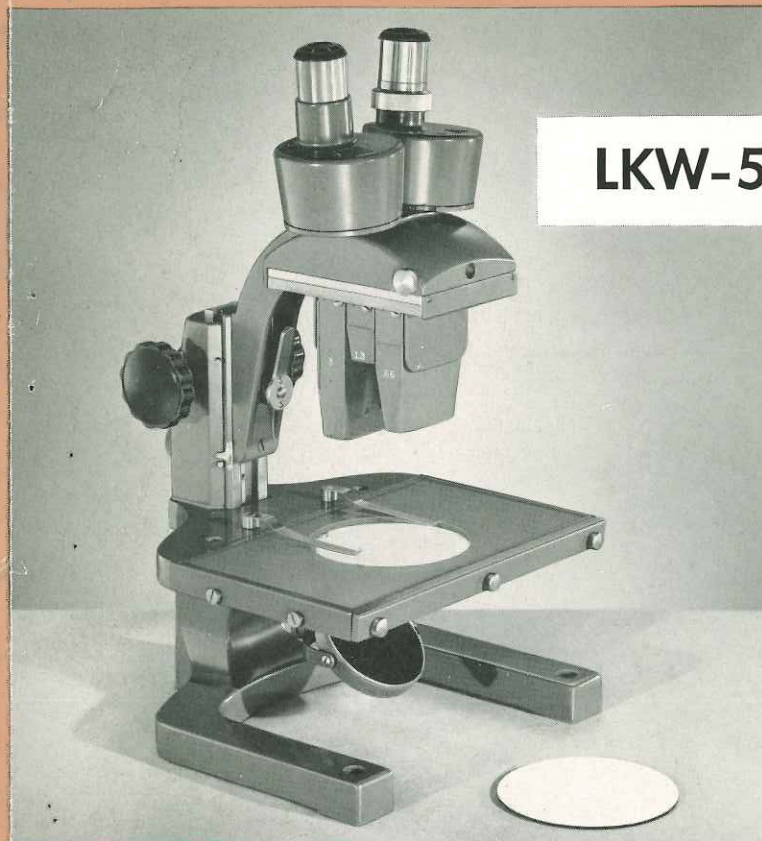
- Vertical eyepieces, dustproof prism housings and sliding nosepiece with 3 sets of paired objectives, double dovetail extensible slide and extra wide rack feature these models.

The BKW-5 is the AKW-5 with standard V-U base, while the LKW-5 is the same except that the stage and base are wider. SKW-5 has cast iron base and can be adjusted in any plane and revolved about the vertical.

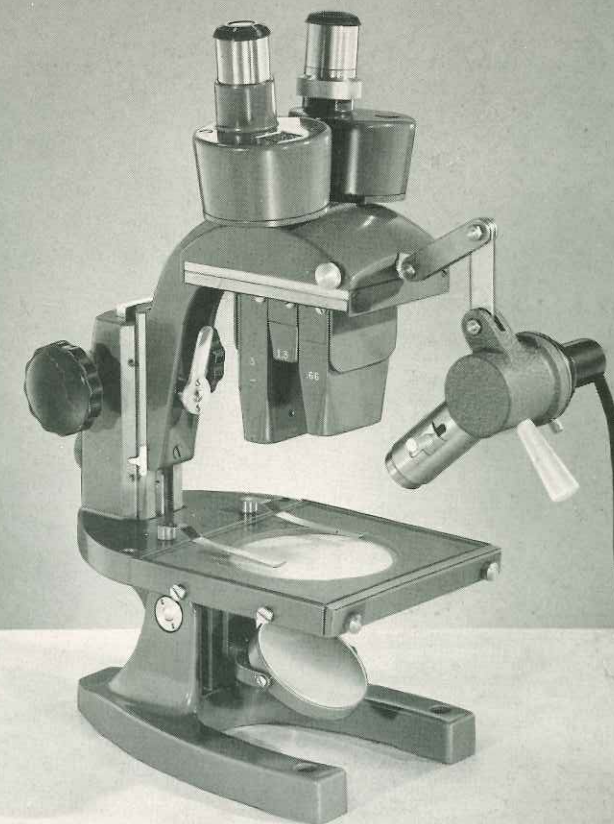
Nicholas Illuminator shown on the BKW-5 is optional.

For specifications please turn to pages 18-19.

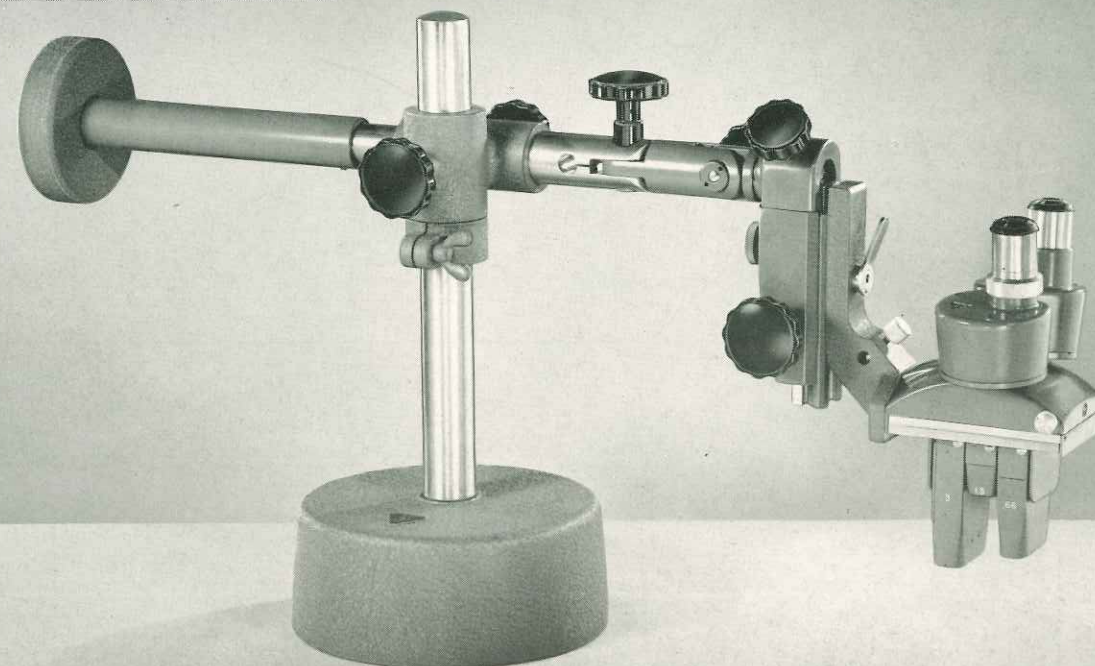
LKW-5



BKW-5



SKW-5

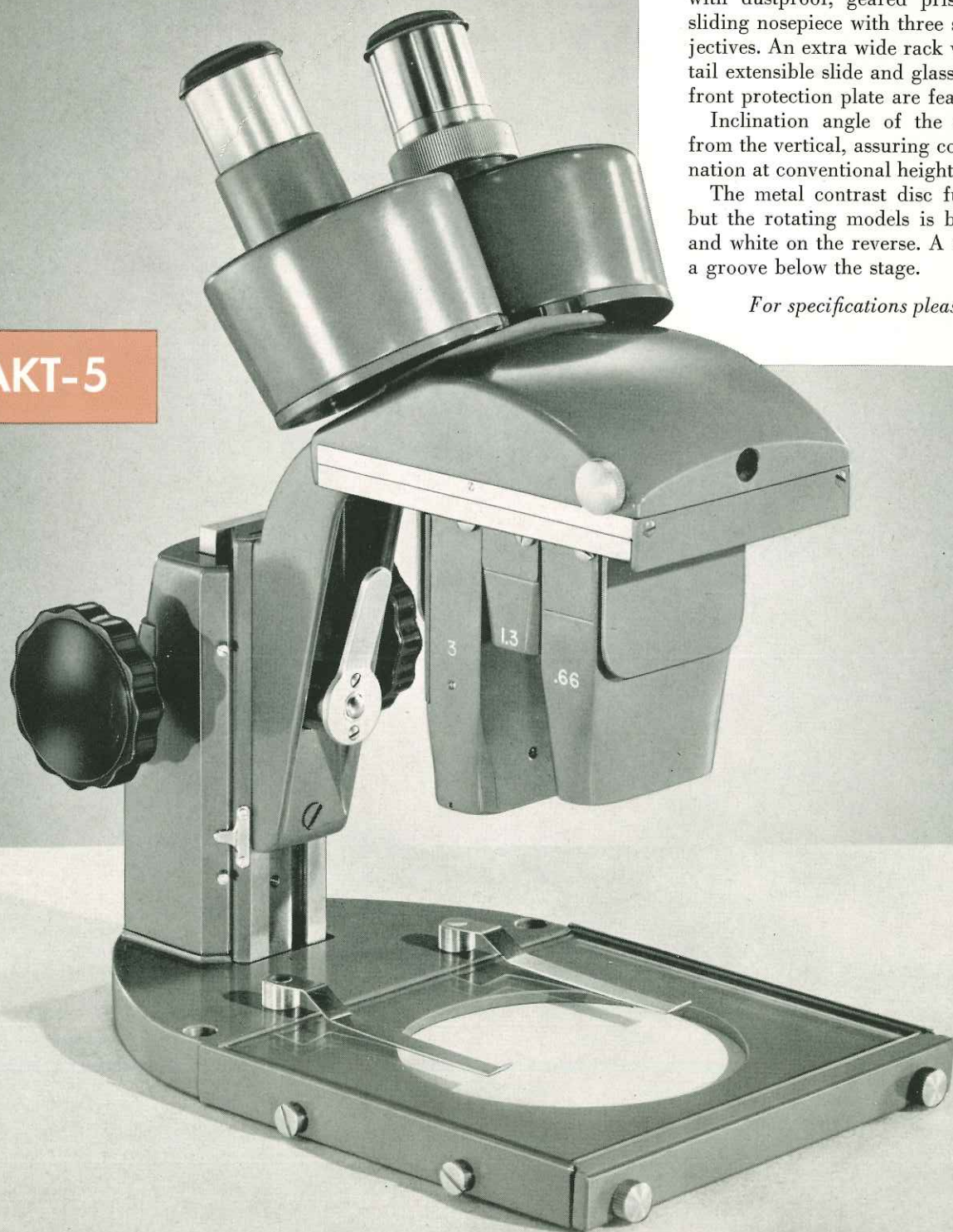




SERIES T

Stereomicroscopes...

AKT-5



• The AKT-5 is an inclined eyepiece model with dustproof, geared prism housings and sliding nosepiece with three sets of paired objectives. An extra wide rack with double dovetail extensible slide and glass stage with metal front protection plate are featured.

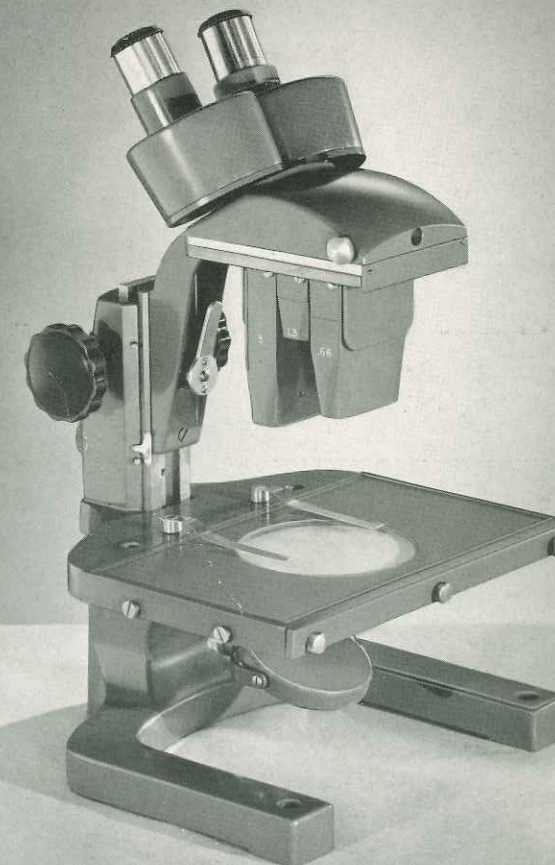
Inclination angle of the eyepieces is 30° from the vertical, assuring comfortable examination at conventional height tables.

The metal contrast disc furnished with all but the rotating models is black on one side and white on the reverse. A spring holds it in a groove below the stage.

For specifications please turn to page 19.



BKT-1



LKT-5

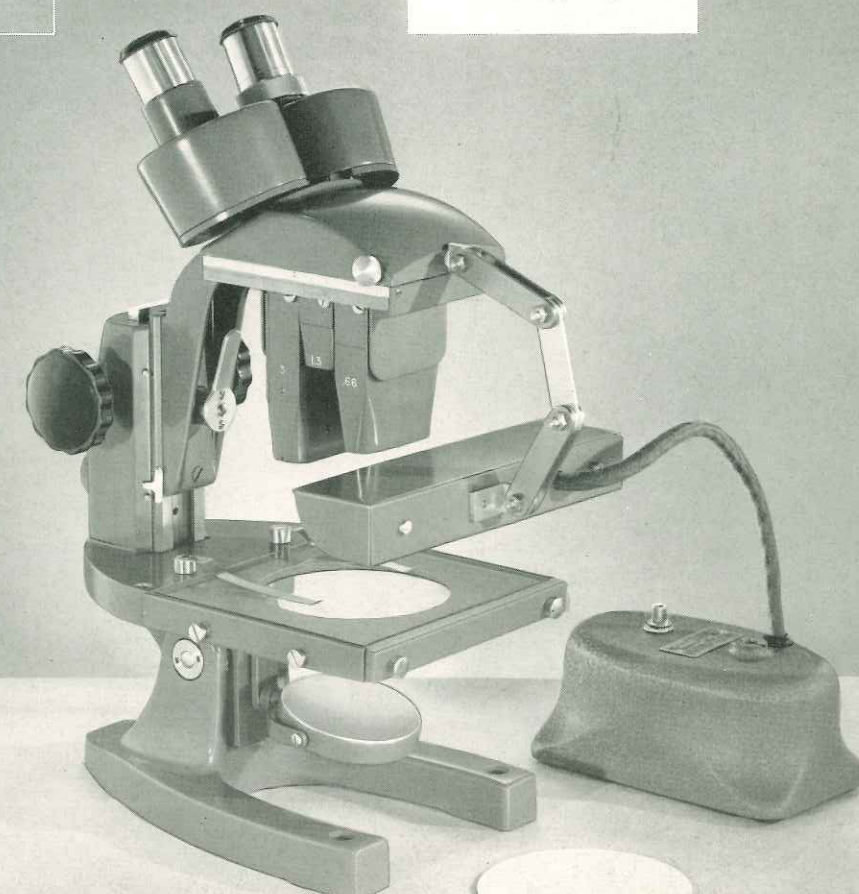
BKT-5

• Inclined eyepiece models, these three types have the same general features of excellence possessed by the others of the W, T, and R Series.

The BKT-5 is the same as the AKT-5 except for the addition of the standard, detachable V-U base, while the LKT-5 is supplied with wider base and stage.

Model BKT-1 has one set of paired objectives on a single, horizontal, dustproof nosepiece. Fluorescent illuminator shown with the BKT-5 is optional. Hand rests are supplied with both of these models. They fasten, with set screws, to the right and left hand edges of the stage. See the illustration on page 20.

For specifications please turn to page 19.

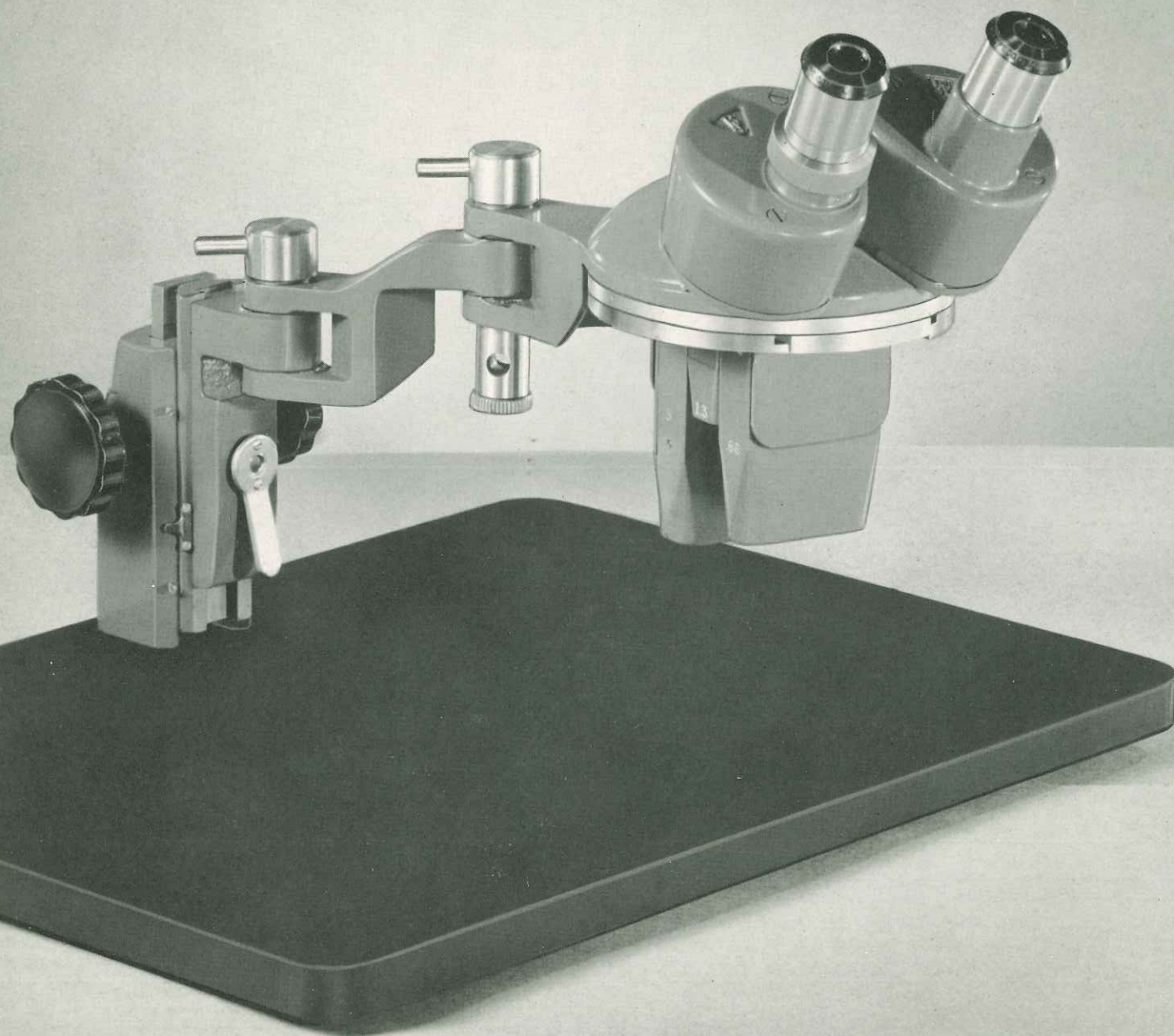




SERIES R

Stereomicroscopes...

KTR-5



• These two models feature a sliding nosepiece which revolves around the center of the field of view regardless of which objective is in use.

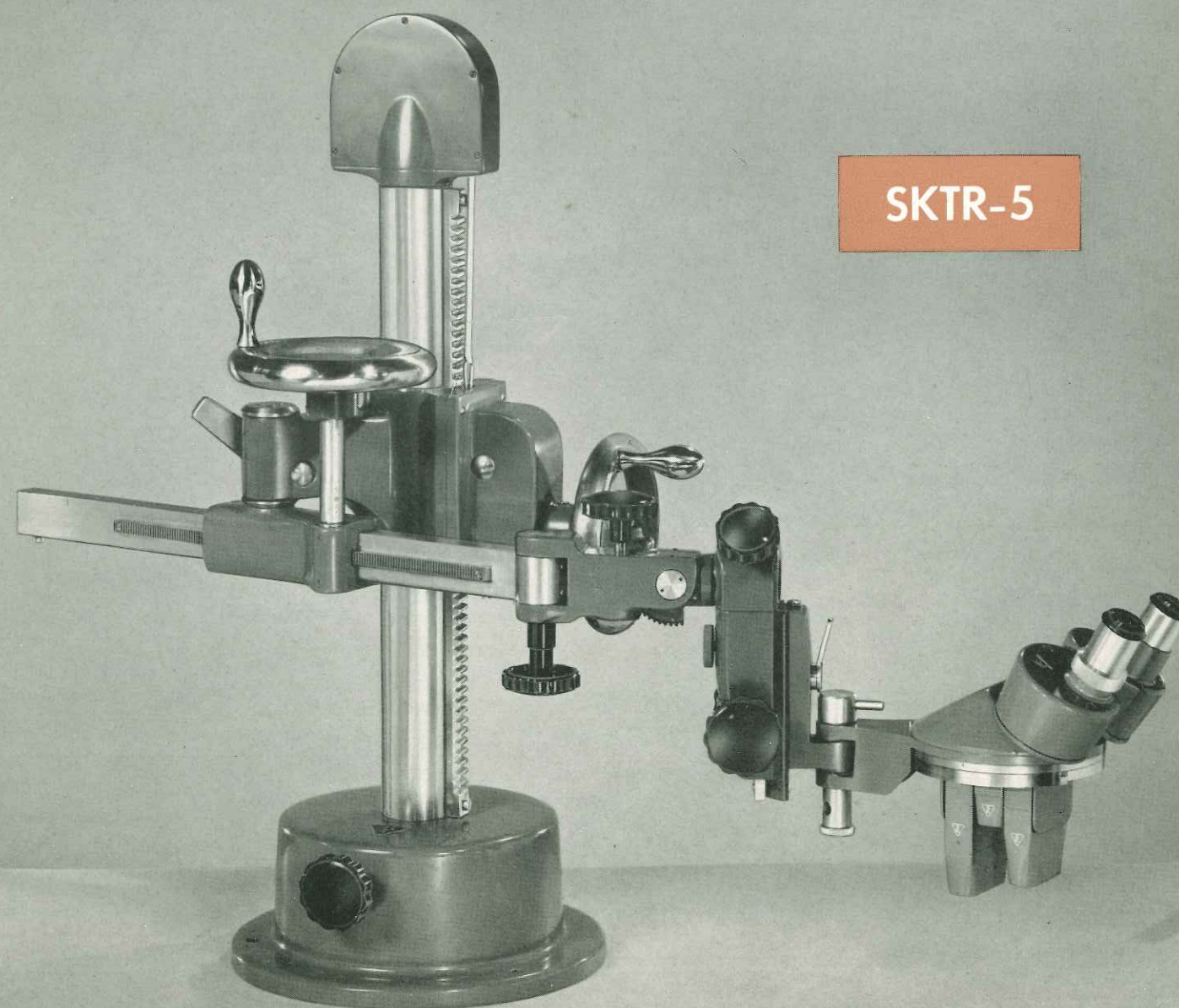
Model KTR-5 with dual jointed arm is focused by extra wide rack and pinion. The arm can be clamped vertically at any point on the double dovetail slide.

SKTR-5 is designed for use where unusually long horizontal or vertical travel is necessary to bring the microscope over the field to be examined. Positioning and focusing are accomplished with rack and pinion adjustments.

For specifications please turn to page 19.

Catalog D-15, Page 17

SKTR-5





SPECIFICATIONS • BAUSCH & LOMB

SERIES K STEREOMICROSCOPES

MODELS FOR BOTH OPAQUE AND TRANSPARENT OBJECTS

Vertical eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism bodies; focusable by extra wide rack and pinion; large focusing knobs; and the following individual equipment:

JK-1



MODEL JK-1, CATALOG NO. 31-26-11-11

For examination of opaque objects. Arm attachable to dovetail slide at any one of three points in vertical plane; stage clips and metal stage with insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× paired Huygenian eyepieces; 1 set 1.0× paired objectives in single, dustproof, stationary nosepiece (total magnification, 10 diameters); wood case with lock and key.

JK-2



MODEL JK-2, CATALOG NO. 31-26-10-21

For examination of opaque objects. Arm attachable to dovetail slide at any one of three points in vertical plane; stage clips and metal stage with insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× paired Huygenian eyepieces; 1 set 1.0× and 1 set 2.0× paired objectives in dustproof revolving nosepiece (total magnification, 10 and 20 diameters); wood case with lock and key.

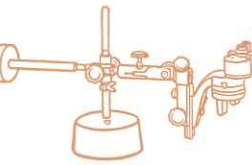
BK-2



MODEL BK-2, CATALOG NO. 31-26-14-21

For examination of both opaque and transparent objects. Arm on double, dovetail, extensible slide; stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× paired Huygenian eyepieces; 1 set 1.0× and 1 set 2.0× paired objectives in double, dustproof, revolving nosepiece (total magnification, 10 and 20 diameters); on standard, detachable, V-U type base with concave mirror and diffusing disc adjustable in three planes; with hand rests; wood case with lock and key.

SK-2



MODEL SK-2, CATALOG NO. 31-26-47-21

For examination of opaque objects. Arm on double, dovetail, extensible slide; on counterbalanced, horizontal arm, with adjustments for examination of specimen in any plane; clamps for adjustment on vertical post; 1 set 10× paired Huygenian eyepieces; 1 set 1.0× and 1 set 2.0× paired objectives, in double, dustproof, revolving nosepiece (total magnification, 10 and 20 diameters); round cast iron base, without hand rests; without case.

JCK-1



MODEL JCK-1, CATALOG NO. 31-26-45-01

For examination of opaque objects. Inclined rack and pinion focusing adjustment on rotating, tilting pivot, in arm on double, dovetail, extensible slide; 1 set 10× paired wide field eyepieces; 1 set 1.0× paired objectives with 1 objective shield, in single, dustproof, stationary nosepiece (total magnification 10 diameters); illuminator socket; U-shaped cast iron base; without hand rests; without case.

The optical head, arm and supporting column can be ordered without base for customer mounting. Furthermore, just the head and arm can be furnished as illustrated on page 11 of the catalog. Inquiries about these and other specialized equipments are welcomed.

SERIES W STEREOMICROSCOPES

MODELS FOR EXAMINATION OF OPAQUE AND OF TRANSPARENT OBJECTS.

Vertical eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism bodies, focusable by extra wide rack and pinion, on double, dovetail extensible slide; large focusing knobs; and the following individual equipment:

AKW-5



MODEL AKW-5, CATALOG NO. 31-26-22-36

For examination of opaque objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); without hand rests; wood case with lock and key.

BKW-5



MODEL BKW-5, CATALOG NO. 31-26-24-36

For examination of both opaque and transparent objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives, in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); on standard detachable V-U base with concave mirror and diffusing disc adjustable in three planes; with hand rests; wood case with lock and key.

STEREOMICROSCOPES...

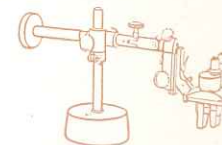
LKW-5



MODEL LKW-5, CATALOG NO. 31-26-28-36.

For examination of both opaque and transparent objects. Stage clips and large removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives, in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); on extra wide, detachable U-shaped base with concave mirror and diffusing disc adjustable in three planes; with hand rests; wood case with lock and key.

SKW-5



MODEL SKW-5, CATALOG NO. 31-26-48-36.

For examination of opaque objects. On counterbalanced, horizontal arm, with adjustments for examination of specimen in any plane; clamps for adjustment on vertical post; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives, in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); round cast iron base; without hand rests; without case.

SERIES T STEREOMICROSCOPES

MODELS FOR EXAMINATION OF BOTH OPAQUE AND TRANSPARENT OBJECTS.

Inclined eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism bodies, focusable by extra wide rack and pinion, on double, dovetail, extensible slide; large focusing knobs; wood case with lock and key; and the following individual equipment:

AKT-5



MODEL AKT-5, CATALOG NO. 31-26-32-36

For examination of opaque objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification, 6.6 to 45 diameters).

BKT-1



MODEL BKT-1, CATALOG NO. 31-26-35-15

For examination of both opaque and transparent objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× paired wide field eyepieces and 1 set 1.33× paired objectives in single, dustproof, stationary nosepiece (total magnification, 13.3 diameters); on standard, detachable V-U base with concave mirror and diffusing disc, adjustable in three planes; with hand rests.

BKT-5



MODEL BKT-5, CATALOG NO. 31-26-34-36

For examination of both opaque and transparent objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification, 6.6 to 45 diameters); on standard, detachable V-U base with concave mirror and diffusing disc, adjustable in three planes; with hand rests.

LKT-5

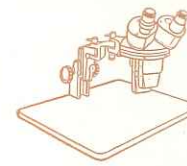


MODEL LKT-5, CATALOG NO. 31-26-38-36

For examination of both opaque and transparent objects. Stage clips and large removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification, 6.6 to 45 diameters); on extra wide, detachable U-shaped base with concave mirror and diffusing disc, adjustable in three planes; with hand rests.

SERIES R STEREOMICROSCOPES

KTR-5



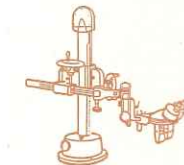
FOR EXAMINATION OF OPAQUE OBJECTS.

Inclined eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism bodies, rotatable on the objective axis; focusable by extra wide rack and pinion, on double dovetail extensible slide; large focusing knobs; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); and the following individual equipment:

MODEL KTR-5, CATALOG NO. 31-26-43-36

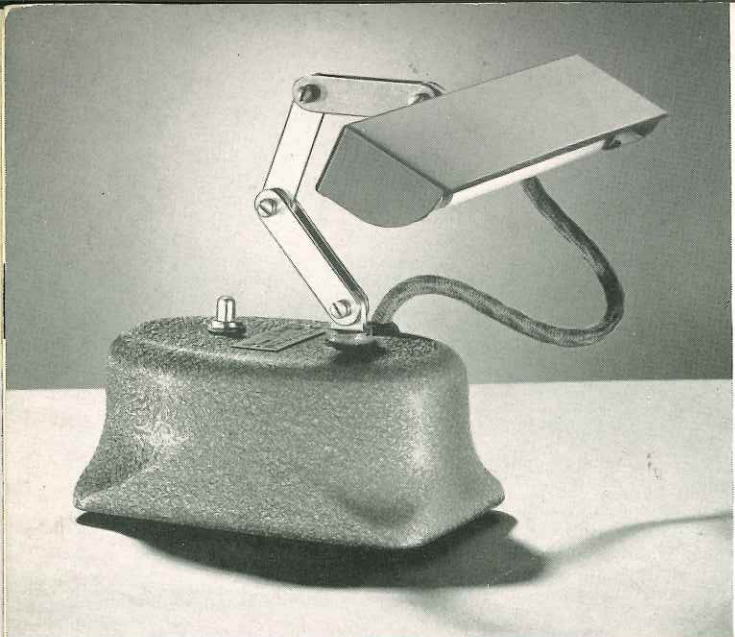
With dual-jointed arm, and 12" x 16" composition baseboard.

SKTR-5



MODEL SKTR-5, CATALOG NO. 31-26-49-36

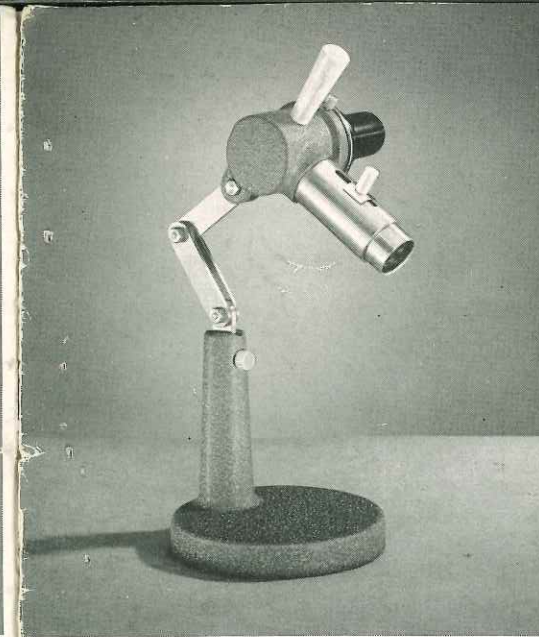
With horizontal arm, laterally and vertically adjustable by hand wheel actuated racks and pinions.



Fluorescent Illuminator and Base



Reflector Illuminator, with adjustable transformer



Improved Nicholas Illuminator

ILLUMINATORS

• **THREE** types of Bausch & Lomb Illuminators are available to provide for every requirement in stereoscopic wide field microscopy.

These illuminators are manufactured by Bausch & Lomb to quality standards. They are recommended as fitting complements to B&L microscopes. Efficient and adequate illumination is just as important in stereoscopic microscopy as it is with monobjective instruments. In fact, in spite of the comparatively low magnifications used and the lack of a substage condenser, Greenough type microscopes make just as critical demands of illuminators as do those instruments with higher magnifications.

Bausch & Lomb illuminators will prove adequate, versatile, and long lived—capable of rendering the kind of service expected of a B&L instrument.

Reflector

The Reflector Illuminator with elliptical mirror is so designed that it will deliver diverging, parallel or converging light. The jointed arm permits illumination from any angle and either above or below the stage. The lamp focusing adjustment enables the technician to use the illuminator well outside the field of actual operations.

Fluorescent

The Fluorescent Illuminator furnishes cool light of even intensity and can be used on its base or in one of the holes provided on the bases, stages and sliding nosepieces of most models.

The light can be adjusted in any direction by means of the strong, jointed arm. In the base are contained the switch and reactor unit.

Nicholas

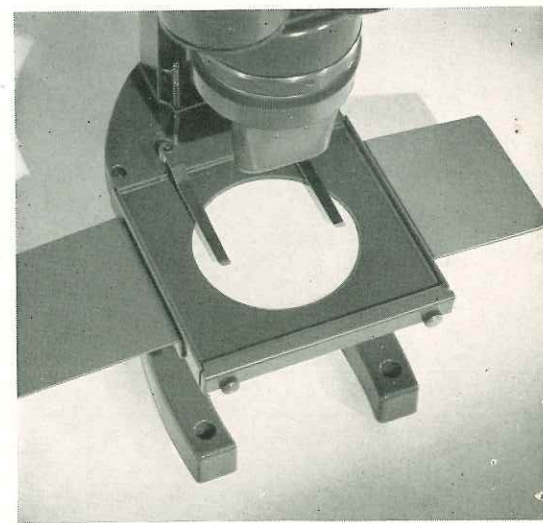
For parallel light the improved Nicholas Illuminator has a condenser system for controlling the beam. The illuminator can be used on its pedestal base or in holes on the microscope the same as the fluorescent type. Joints in the arm allow for tilting the illuminator to the desired angle. A blue glass filter is supplied.

The arm is of sufficient strength to provide adequate support for the lamp and condenser assembly, minimizing vibration and inconstant focus.

The Nicholas Illuminator and Reflector Illuminator require either a resistance or a transformer. Selection should be made from the specification table on the next page, according to type of current available.

OBJECTIVES—Great care has been exercised in the design of the recommended Objectives. They are paired in the objective holder and are parfocal. Interchange between microscopes is entirely practical. The four most popular magnifications, 10 $\times$, 20 $\times$, 30 $\times$, and 60 $\times$, can be obtained with either 10 $\times$ or 15 $\times$ eyepieces.

MECHANICAL STAGE—Available at extra cost is an ungraduated attachable mechanical stage. This stage can be attached to any Bausch & Lomb Stereomicroscope having base and glass stage, except the large stage models. Attaching is done by two thumb screws and does not require factory fitting. Slides up to 2" x 3" can be accommodated. A wood case is included for storing the stage.



Hand rests are supplied on all B&L Stereomicroscopes equipped with bases and glass stages.

ACCESSORIES

PAIRED OBJECTIVES			PAIRED EYEPIECES				RENEWALS FOR JCK-1			Price
Mag.	Catalog No.	Price	Mag.	Type	Catalog No.	Price	Objective Shield Cat. No. 31-19-45.....			\$4.00
0.66×	31-12-06	\$34.00	10×	Huygenian	31-15-09-02	\$13.00	Glass, only, for objective shield.....			1.75
1.0×	31-12-10	34.00	10×	Wide Field	31-15-51-02	27.00	MICROMETER DISCS			
1.33×	31-12-11	34.00	15×	Wide Field	31-15-52-02	27.00		Cat. No.	Price	
2.0×	31-12-12	34.00	20×	Wide Field	31-15-53-02	27.00	Micrometer Disc, 10mm, ruled to 0.1mm	31-16-02	\$6.50	
3.0×	31-12-13	34.00	See explanation below headed "eyepieces"				Micrometer Disc, 5mm, ruled to 0.1mm.....	31-16-05	5.50	
4.0×	31-12-14	36.00	CASES				Special Micrometer Discs can be furnished. Submit a print giving measurements on the plane of the specimen, with desired eyepiece and objective magnifications. Prices on re- quest.			
6.0×	31-12-16	40.00	For Model		Catalog No.	Price				
7.5×	31-12-17	40.00	JK-1, JK-2.....		31-39-86	\$14.00	Cross Line Disc, 21mm diameter			
These objectives are parfocal and can be interchanged from one ster- eomicroscope to another with no loss in quality or performance.			JCK-1.....		31-39-24	14.00	31-16-30 \$ 6.50			
			BK-2, BKW-5, BKT-1, BKT-5		31-39-88	16.50	Stage Micrometer, glass, ruled to 0.001"			
			AKW-5, AKT-5.....		31-39-87	14.00	31-16-89 18.00			
			LKW-5, LKT-5.....		31-39-89	19.00	Stage Micrometer, glass, ruled to 0.01mm			
			Models JK-1, JK-2, BK-2, AKW-5, BKW-5, LKW-5, AKT-5, BKT-1, BKT-5, and LKT-5 are listed with cases. If not wanted, cost of case may be deducted. There are no cases provided for models SK-2, SKW-5, KTR-5 and SKTR-5. Model JCK-1 is listed without case. If one is desired, add cost of No. 31-39-24, above.						31-16-90 18.00	

EYEPIECES—Bausch & Lomb recommends for its Stereomicroscopes paired eyepieces of either the Huygenian or Wide Field types. The former are standard on the models JK-1, JK-2, BK-2 and SK-2 while the rest are equipped with the Wide Field form.

Both types are interchangeable, however, so that if Wide Fields are wanted on a model not so listed it is merely necessary to order accordingly, adding the price differential.

MICROMETER DISCS—Any Bausch & Lomb Stereomicroscope listed in this catalog can be used as a measuring instrument by inserting a micrometer disc in one of the wide field eyepieces. These discs are available in several types, of the proper diameter to fit Bausch & Lomb wide field eyepieces.

Catalog D-184 illustrates and describes the complete line of standard micrometer eyepiece discs, while the three most

ILLUMINATORS AND ACCESSORIES

Description	Catalog No.
Nicholas Illuminator with 6.5-v., 25.5 c.p. lamp for 115-v. A.C., focusable condenser and blue glass filter. On hinged arm, pedestal base, without transformer.....	31-33-51-01
Same as above, but without base.....	31-33-52-01
Reflector Illuminator, without transformer.....	31-33-11-01
Reflector Illuminator for 115-v. A.C.—D.C., no transformer required.....	31-33-21-01
Transformer, adjustable, for 115-v. A.C.....	31-36-45
Transformer, fixed, for 115-v. A.C.....	31-36-47
Resistance for 115-v. A.C.—D.C.....	31-36-44
Fluorescent Illuminator with 6" lamp for 115-v. A.C., with reflector and adjustable hinged arm and base.....	31-33-54-01
Lamp for Fluorescent Illuminator, 6", 115-v., 4-watt.....	31-31-03
Lamp for Nicholas Illuminator, 6.5-v., 25.5 c.p.....	31-31-79
Lamp for Reflector Illuminator, 6.5-v., outside white.....	31-31-16
Lamp for Reflector Illuminator, 115-v., 15-watt, outside white.....	31-31-67
Attachable Mechanical Stage, ungraduated, in case.....	31-59-64
Base, only, for Models AKW-5 and AKT-5.....	

MAGNIFICATIONS AND REAL FIELDS

PAIRED OBJECTIVES			PAIRED EYEPIECES												Huygenian					
			Wide Field																	
			10 ×			15 ×			20 ×			10 ×								
Magni- fication	Working Distance		Diameter of Real Field		Recommended Field when Using Microm- eter Disc		Total Magni- fication		Diameter of Real Field		Recommended Field when Using Microm- eter Disc		Total Magni- fication		Diameter of Real Field		Recommended Field when Using Microm- eter Disc			
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches		
.66 ×	62.0	2.44	30.0	1.18	20.0	.79	10.0 ×	26.2	1.03	17.5	.69	13.2 ×	18.5	.73	12.3	.48	22.0	.87	14.6	.58
1.0 ×	95.9	3.77	20.0	.79	13.3	.52	15.0 ×	17.3	.68	11.5	.45	20.0 ×	12.2	.48	8.1	.32	14.5	.57	9.7	.38
1.33 ×	95.9	3.77	15.4	.61	10.3	.41	20.0 ×	13.3	.52	8.9	.35	26.6 ×	9.4	.37	6.3	.25	10.9	.43	7.3	.29
2.0 ×	63.6	2.50	10.0	.39	6.6	.26	30.0 ×	8.7	.34	5.8	.23	40.0 ×	6.1	.24	4.1	.16	7.2	.28	4.8	.19
3.0 ×	51.7	2.04	6.7	.26	4.5	.17	45.0 ×	5.8	.23	3.9	.15	60.0 ×	4.1	.16	2.7	.11	4.8	.19	3.2	.13
4.0 ×	39.0	1.54	5.0	.20	3.3	.13	60.0 ×	4.3	.17	2.9	.11	80.0 ×	3.1	.12	2.1	.08	3.6	.14	2.4	.09
6.0 ×	23.9	.94	3.3	.13	2.2	.09	90.0 ×	2.9	.11	1.9	.07	120.0 ×	2.0	.08	1.3	.05	2.4	.09	1.6	.06
7.5 ×	19.2	.76	2.7	.11	1.8	.07	112.0 ×	2.3	.09	1.5	.05	150.0 ×	1.6	.06	1.1	.04	1.9	.07	1.3	.05

BAUSCH & LOMB
Stereomicroscopes

PRICE LIST

NOVEMBER 1, 1952



SPECIFICATIONS • BAUSCH & LOMB STEREOMICROSCOPES...

SERIES K STEREOMICROSCOPES

JK-1



MODELS FOR BOTH OPAQUE AND TRANSPARENT OBJECTS

Vertical eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism bodies; focusable by extra wide rack and pinion; large focusing knobs; and the following individual equipment:

MODEL JK-1, CATALOG NO. 31-26-11-11.....\$209.00

For examination of opaque objects. Arm attachable to dovetail slide at any one of three points in vertical plane; stage clips and metal stage with insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× paired Huygenian eyepieces; 1 set 1.0× paired objectives in single, dustproof, stationary nosepiece (total magnification, 10 diameters); wood case with lock and key.

JK-2



MODEL JK-2, CATALOG NO. 31-26-10-21.....\$260.00

For examination of opaque objects. Arm attachable to dovetail slide at any one of three points in vertical plane; stage clips and metal stage with insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× paired Huygenian eyepieces; 1 set 1.0× and 1 set 2.0× paired objectives in dustproof revolving nosepiece (total magnification, 10 and 20 diameters); wood case with lock and key.

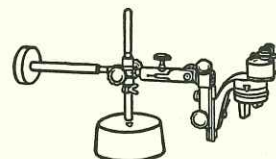
BK-2



MODEL BK-2, CATALOG NO. 31-26-14-21.....\$319.50

For examination of both opaque and transparent objects. Arm on double, dovetail, extensible slide; stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× paired Huygenian eyepieces; 1 set 1.0× and 1 set 2.0× paired objectives in double, dustproof, revolving nosepiece (total magnification, 10 and 20 diameters); on standard, detachable, V-U type base with concave mirror and diffusing disc adjustable in three planes; with hand rests; wood case with lock and key.

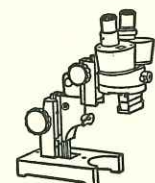
SK-2



MODEL SK-2, CATALOG NO. 31-26-47-21.....\$328.00

For examination of opaque objects. Arm on double, dovetail, extensible slide; on counterbalanced, horizontal arm, with adjustments for examination of specimen in any plane; clamps for adjustment on vertical post; 1 set 10× paired Huygenian eyepieces; 1 set 1.0× and 1 set 2.0× paired objectives, in double, dustproof, revolving nosepiece (total magnification, 10 and 20 diameters); round cast iron base, without hand rests; without case.

JCK-1



MODEL JCK-1, CATALOG NO. 31-26-45-01.....\$259.00

For examination of opaque objects. Inclined rack and pinion focusing adjustment on rotating, tilting pivot, in arm on double, dovetail, extensible slide; 1 set 10× paired wide field eyepieces; 1 set 1.0× paired objectives with 1 objective shield, in single, dustproof, stationary nosepiece (total magnification 10 diameters); illuminator socket; U-shaped cast iron base; without hand rests; without case.

The optical head, arm and supporting column can be ordered without base for customer mounting. Furthermore, just the head and arm can be furnished as illustrated on page 11 of the catalog. Inquiries about these and other specialized equipments are welcomed.

SERIES W STEREOMICROSCOPES

AKW-5



MODELS FOR EXAMINATION OF OPAQUE AND OF TRANSPARENT OBJECTS.

Vertical eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism bodies, focusable by extra wide rack and pinion, on double, dovetail extensible slide; large focusing knobs; and the following individual equipment:

MODEL AKW-5, CATALOG NO. 31-26-22-36.....\$384.00

For examination of opaque objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); without hand rests; wood case with lock and key.

BKW-5



MODEL BKW-5, CATALOG NO. 31-26-24-36.....\$417.50

For examination of both opaque and transparent objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives, in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); on standard detachable V-U base with concave mirror and diffusing disc adjustable in three planes; with hand rests; wood case with lock and key.

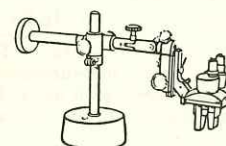
LKW-5



MODEL LKW-5, CATALOG NO. 31-26-28-36.....\$426.00

For examination of both opaque and transparent objects. Stage clips and large removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives, in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); on extra wide, detachable U-shaped base with concave mirror and diffusing disc adjustable in three planes; with hand rests; wood case with lock and key.

SKW-5



MODEL SKW-5, CATALOG NO. 31-26-48-36.....\$426.00

For examination of opaque objects. On counterbalanced, horizontal arm, with adjustments for examination of specimen in any plane; clamps for adjustment on vertical post; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives, in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); round cast iron base; without hand rests; without case.

SERIES T STEREOMICROSCOPES

AKT-5



MODELS FOR EXAMINATION OF BOTH OPAQUE AND TRANSPARENT OBJECTS.

Inclined eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism bodies, focusable by extra wide rack and pinion, on double, dovetail, extensible slide; large focusing knobs; wood case with lock and key; and the following individual equipment:

MODEL AKT-5, CATALOG NO. 31-26-32-36.....\$419.00

For examination of opaque objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification, 6.6 to 45 diameters).

BKT-1



MODEL BKT-1, CATALOG NO. 31-26-35-15.....\$328.50

For examination of both opaque and transparent objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× paired wide field eyepieces and 1 set 1.33× paired objectives in single, dustproof, stationary nosepiece (total magnification, 13.3 diameters); on standard, detachable V-U base with concave mirror and diffusing disc, adjustable in three planes; with hand rests.

BKT-5



MODEL BKT-5, CATALOG NO. 31-26-34-36.....\$452.50

For examination of both opaque and transparent objects. Stage clips and removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification, 6.6 to 45 diameters); on standard, detachable V-U base with concave mirror and diffusing disc, adjustable in three planes; with hand rests.

LKT-5

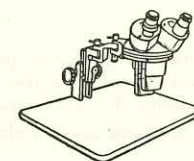


MODEL LKT-5, CATALOG NO. 31-26-38-36.....\$461.00

For examination of both opaque and transparent objects. Stage clips and large removable glass stage with front protection plate, and insertable, metal, contrast disc, black on one side and white on the reverse; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification, 6.6 to 45 diameters); on extra wide, detachable U-shaped base with concave mirror and diffusing disc, adjustable in three planes; with hand rests.

SERIES R STEREOMICROSCOPES

KTR-5



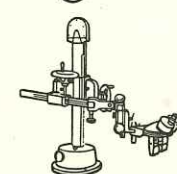
FOR EXAMINATION OF OPAQUE OBJECTS.

Inclined eyepieces with adjustments for interpupillary distance and balancing acuity of observer's eyes; binocular, dustproof prism bodies, rotatable on the objective axis; focusable by extra wide rack and pinion, on double dovetail extensible slide; large focusing knobs; 1 set 10× and 1 set 15× paired wide field eyepieces; 1 set 0.66×, 1 set 1.33×, and 1 set 3.0× paired objectives in triple, sliding, dustproof nosepiece (total magnification 6.6 to 45 diameters); and the following individual equipment:

MODEL KTR-5, CATALOG NO. 31-26-43-36.....\$478.00

With dual-jointed arm, and 12" x 16" composition baseboard.

SKTR-5



MODEL SKTR-5, CATALOG NO. 31-26-49-36.....\$660.00

With horizontal arm, laterally and vertically adjustable by hand wheel actuated racks and pinions.

ACCESSORIES															
PAIRED OBJECTIVES			PAIRED EYEPIECES				RENEWALS FOR JCK-1								
Mag.	Catalog No.	Price	Mag.	Type	Catalog No.	Price			Price						
0.66×	31-12-06	\$34.00	10×	Huygenian	31-15-09-02	\$13.00	Objective Shield Cat. No. 31-19-45.....		\$4.00						
1.0×	31-12-10	34.00	10×	Wide Field	31-15-51-02	27.00	Glass, only, for objective shield.....		1.75						
1.33×	31-12-11	34.00	15×	Wide Field	31-15-52-02	27.00	MICROMETER DISCS								
2.0×	31-12-12	34.00	20×	Wide Field	31-15-53-02	27.00		Cat. No.	Price						
3.0×	31-12-13	34.00	CASES				Micrometer Disc, 10mm, ruled to 0.1mm	31-16-02	\$6.50						
4.0×	31-12-14	36.00					Micrometer Disc, 5mm, ruled to 0.1mm.....	31-16-05	5.50						
6.0×	31-12-16	40.00	For Model				Special Micrometer Discs can be furnished. Submit a print giving measurements on the plane of the specimen, with desired eyepiece and objective magnifications. Prices on request.								
7.5×	31-12-17	40.00	Catalog No.												
These objectives are parfocal and can be interchanged from one stereomicroscope to another with no loss in quality or performance.										JK-1, JK-2.....			31-39-86	\$14.00	
										JCK-1.....				31-39-24	14.00
										BK-2, BKW-5, BKT-1, BKT-5.....				31-39-88	16.50
							AKW-5, AKT-5.....				31-39-87	14.00			
							LKW-5, LKT-5.....				31-39-89	19.00			
							Models JK-1, JK-2, BK-2, AKW-5, BKW-5, LKW-5, AKT-5, BKT-1, BKT-5, and LKT-5 are listed with cases. If not wanted, cost of case may be deducted. There are no cases provided for models SK-2, SKW-5, KTR-5 and SKTR-5. Model JCK-1 is listed without case. If one is desired, add cost of No. 31-39-24, above.				Cross Line Disc, 21mm diameter	31-16-30	\$ 6.50		
											Stage Micrometer, glass, ruled to 0.001"	31-16-89	18.00		
											Stage Micrometer, glass, ruled to 0.01mm	31-16-90	18.00		

ILLUMINATORS AND ACCESSORIES		
Description	Catalog No.	Price
Nicholas Illuminator with 6.5-v., 25.5 c.p. lamp for 115-v. A.C., focusable condenser and blue glass filter. On hinged arm, pedestal base, without transformer	31-33-51-01	\$40.00
Same as above, but without base.....	31-33-52-01	36.00
Reflector Illuminator, without transformer.....	31-33-11-01	24.00
Reflector Illuminator for 115-v. A.C.—D.C., no transformer required.....	31-33-21-01	24.00
Transformer, adjustable, for 115-v. A.C.....	31-36-45	16.00
Transformer, fixed, for 115-v. A.C.....	31-36-47	14.00
Resistance for 115-v. A.C.—D.C.....	31-36-44	14.00
Fluorescent Illuminator with 6" lamp for 115-v. A.C., with reflector and adjustable hinged arm and base.....	31-33-54-01	36.00
Lamp for Fluorescent Illuminator, 6", 115-v., 4-watt.....	31-31-03	MCP .80 Tax .08
Lamp for Nicholas Illuminator, 6.5-v., 25.5 c.p.....	31-31-79	MCP .90 Tax .0567
Lamp for Reflector Illuminator, 6.5-v., outside white	31-31-16	MCP .83 Tax .0523
Lamp for Reflector Illuminator, 115-v., 15-watt, outside white.....	31-31-67	MCP .45 Tax .0450
Attachable Mechanical Stage, ungraduated, in case.....	31-59-64	83.00
Base, only, for Models AKW-5 and AKT-5		31.00

Prices are subject to change without notice. Orders are subject to acceptance at Rochester, New York, U. S. A., at prices prevailing at time of shipment. Orders for standard items may be cancelled if not wanted because of price advance. Excise taxes or other governmental charges will be added wherever applicable. Shipments to points outside Continental United States of America and to its territories, dependencies and possessions, except Hawaii and Alaska, are not subject to excise taxes. Delivery dates are estimated and cannot be guaranteed.

BAUSCH & LOMB OPTICAL CO.
ROCHESTER 2, NEW YORK, U. S. A.

TERMS AND PROCEDURE

CATALOG NUMBERS

When ordering, be sure to give catalog number and name of item.

FINANCIAL STANDING

To avoid delay, a purchaser with whom Bausch & Lomb has not previously transacted business should accompany his first order with commercial references or remittance in cash.

TRANSPORTATION CHARGES

Unless otherwise stated on a B&L quotation, all consumer purchases, except repairs, will be shipped transportation charges prepaid to any point within Continental United States of America. Other-than-consumer purchases, all repairs, and goods for delivery outside the above specified area will be shipped f.o.b. Rochester, N. Y., U. S. A. The shipping charges on products sent on memorandum are not prepaid. There is no charge for packing unless otherwise stated. Products made on special order cannot be forwarded C.O.D.

SHORTAGE OR DAMAGE

To avoid error, Bausch & Lomb exercises the utmost care in checking and packing all shipments. All packing should be carefully examined for small items. If a discrepancy is found, report it to Bausch & Lomb immediately. Report to the transportation company at once any claim for loss, damage or breakage. Carriers are responsible for loss or damage to goods in transit. When shipping container shows damage, do not give a clear receipt, but sign for "in bad order". Save the container and obtain an inspection report from the carrier.

RETURNING GOODS

If it is desired to return goods, first send Bausch & Lomb full information by letter. Goods should not be returned for any reason until approval for their return has been received from Bausch & Lomb. Each item should be plainly tagged with sender's name and address. Identification tags will be sent on request.

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Electrical equipments for use on voltages other than those listed are available on special order. Send complete specifications for quotations.

INQUIRIES

When writing, please give the date of your order, the Bausch & Lomb order number which appears on the packing slip and, if possible, the Bausch & Lomb invoice number.

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Prices are subject to change without notice. Orders are subject to acceptance at Rochester, N. Y., U. S. A., at prices prevailing at time of shipment. Orders for standard items may be cancelled if not wanted because of price advance. Excise taxes or other governmental charges will be added wherever applicable. Shipments to points outside Continental United States of America and to its territories, dependencies and possessions, except Hawaii and Alaska, are not subject to excise taxes. Delivery dates are estimated and cannot be guaranteed.

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Bausch & Lomb reserves the right to make changes in instrument design in accordance with scientific progress, and to supply apparatus resultingly different from that described or illustrated in its literature.



BAUSCH & LOMB OPTICAL CO.
Rochester 2, New York, U. S. A.

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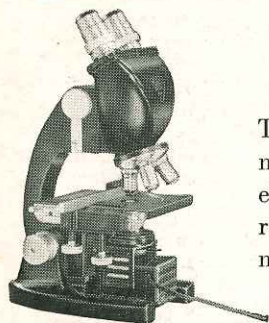
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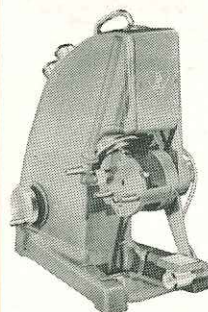
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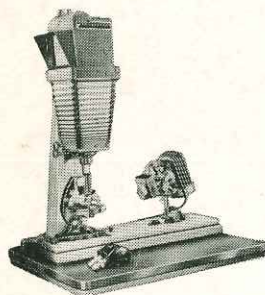
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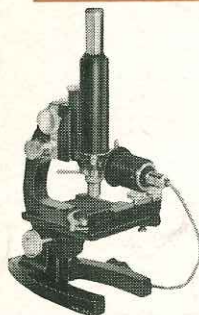
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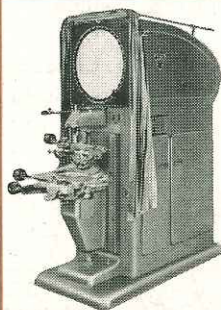
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